



High Performance Integratable UHF Receiver

ADL RXO



The ADL RXO is a receive-only UHF radio module designed for integration into products that require a low power one-way radio communication link. This sophisticated radio utilizes Pacific Crest's next generation Advanced Data Link (ADL) technology while remaining backward compatible with existing Pacific Crest, Trimble and other products. Integrating the latest

wireless technology from the leader in radio frequency data communications instantly puts your products in touch with the world's largest installed base of GNSS precise positioning systems. With Pacific Crest's system integration expertise, you are buying a solution, not just a radio.

Features

- **40 MHz Bandwidth**
390-430 and 430-470 MHz models
Advanced Data Link design for high performance over entire band
- **High Over-the-Air Link Rate**
19,200 bps (both GMSK and 4FSK)
Supports 1Hz RTK corrections for multi-GNSS receivers
- **Multiple Protocol Support**
Transparent (EOT and EOC)
Packet Switched
Industry-standard GNSS protocols
- **Software-Derived Channel Bandwidth**
Compatible with both 12.5 and 25 kHz radios
- **Improved Environmental Capabilities**
Higher vibration tolerance
Wider temperature specification

Solutions



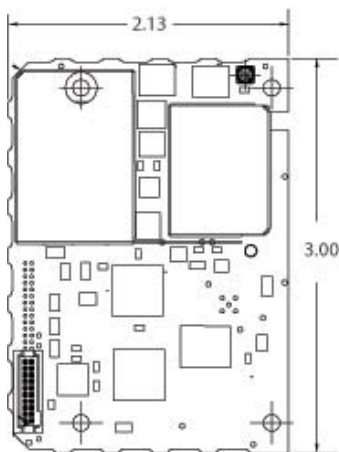
ADL RXO SPECIFICATIONS



Top View



Bottom View



Dimensions

General Specifications	
DTE - DCE Interface	RS-232 or CMOS , 115.2 kbps maximum
User Interface	Refer to Pin-Outs in ADL RXO Integrator's Guide
Power	
Input	3.3 VDC to 5.0 VDC +/- 0.1 VDC
Consumption	0.5 Watts nominal @ 3.3 VDC; 0.7 Watts Nominal @ 5.0 VDC
Antenna	
External	50 Ohm, MMCX
Modem Specifications	
Link Rate/Modulation	19,200 bps/4FSK 9600 bps/4FSK 19,200 bps/GMSK 16000 bps/GMSK 9600 bps/GMSK 8000 bps/GMSK 4800 bps/GMSK
Link Protocols	Transparent EOT/EOC, Packet-switched, Trimble®, SATEL®, OEM-specific
Forward Error Correction	Yes
Radio Specifications	
Frequency Bands	390-430, 430-470 MHz
Frequency Control	Synthesized 12.5 kHz tuning resolution Frequency stability +/- 1 PPM
Sensitivity	-110 dBm BER 10 ⁻⁵
Type Certification	All models are type accepted and certified for operation in the U.S., Canada, Europe, and Australia
Environmental Specifications	
Operating Temperature	-40° to +85° C (-40° to +185° F)
Storage Temperature	-55° to +85° C (-67° to +185° F)
Vibration Specification	MIL-STD-810F
Mechanical Specifications	
Dimensions	7.6 cm L x 5.6 cm W x 1.1 cm H (3.0" L x 2.2" W x 0.4" H)
Weight	70 grams (2.5 oz.)
Data/Power Connector	20 Pin: Samtec TFM-110-11-S-D (mates with Samtec SFM , SFMC , TFMDL , FHSC , ISDF , SFSD , SFLX)
Mount	4 x 3.175mm (0.125") diameter holes